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### SUR 200T.50: Operating Room Techniques - Outreach

Debbie S. Fillmore

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UNIVERSITY OF MONTANA-MISSOULA  
COLLEGE OF TECHNOLOGY  
SURGICAL TECHNOLOGY DEPARTMENT

COURSE SYLLABUS –Outreach

**COURSE NUMBER AND TITLE:** SUR 200T Operating Room Techniques-Outreach

**DATE REVISED:** Fall 2006

**SEMESTER CREDITS:** 5

**CONTACT HOURS PER SEMESTER:** Online

**PREREQUISITES:** BIOL 106N, PSY 100S, COM 115T, SUR 101T, SUR 102T, SUR 154T and concurrent enrollment in SUR 202T.

**INSTRUCTOR NAME:** Debbie Fillmore CST RN MEd

**E-MAIL ADDRESS:** [debbie.fillmore@mso.umt.edu](mailto:debbie.fillmore@mso.umt.edu)

**PHONE NUMBER:** (406) 243-7860

**OFFICE LOCATION:** Room: AD 07  
Administration Building  
College of Technology-East Campus

**OFFICE HOURS:** Monday, Tuesday 3-5pm; Wednesday, Thursday, 9-11am;  
Friday 10-12pm and by appointment

**RELATIONSHIP TO PROGRAM:**

Upon completion of this course, the student will be able to correlate the knowledge and understanding of more complex entry level surgical technologist skills. SUR 200 provides the knowledge base that correlates with SUR 202 Surgical Procedures Lab II. The knowledge gained will enable the student to successfully complete the unit exams and successfully matriculate to more advanced Surgical Technology coursework.

**COURSE DESCRIPTION:**

SUR 200T discusses the more complex responsibilities and competencies of the surgical technologist and related nursing procedures in both the scrub and circulator roles.

## **STUDENT PERFORMANCE OUTCOMES:**

Upon completion of this course, the learner will:

1. Describe the physical preparation and care that the surgical patient may receive prior to the surgical procedure.
2. Evaluate the items on the preoperative patient checklist.
3. State the purposes of proper identification.
4. Describe the identification process for a surgical patient admitted to the surgical department.
5. Identify the methods of patient transportation.
6. Describe the principles of safe transportation for each of the aforementioned methods.
7. Analyze laboratory reports in relationship to patient diagnosis and interventions.
8. Describe the methods of reviewing a patient chart for completeness.
9. Discuss methods of patient transfer.
10. Identify equipment utilized for safe transfer of the surgical patient.
11. Assess the standards and policies to promote patient satisfaction in the perioperative setting.
12. Develop a plan to educate patients regarding the anticipated recovery process.
13. Evaluate the common sources of documentation utilized in the operating room.
14. Judge the importance and impact of proper documentation.
15. Discuss the use, components, and aides utilized to achieve various surgical positions.
16. Describe the basic surgical positions.
17. Describe the homeostatic parameters monitored in the OR setting.
18. Contrast and compare different types of skin preparations.
19. Contrast and compare different chemical agents used for skin preparation.
20. Describe the steps and rationales for surgical skin preparation.
21. List the indications for urinary catheterization.
22. Discuss the basic considerations for urinary catheterization.
23. List the supplies required to perform urinary catheterization.
24. Describe the steps in performing urinary catheterization.
25. Discuss the principles of monitoring urine output.
26. Compare and contrast the types and characteristics of various catheters and drainage devices.
27. Describe the preparation of catheters and drains for intraoperative use.
28. Describe various types of draping material used in surgical procedures.
29. Describe the general principles of draping the patient and any necessary equipment and furniture.
30. Analyze the principles of hemostasis.
31. Differentiate among various methods of hemostasis.
32. Analyze the factors that influence the closure of each wound layer.
33. Compare and contrast suture materials, suture sizing and suture coatings.
34. Describe proper suture selection, preparation, handling and cutting techniques.
35. Diagram and describe needle points and needle bodies.
36. Describe handling, loading and disposal of surgical needles.

37. Analyze various tissue repair and replacement materials and assess the advantage and disadvantages of utilizing repair and replacement materials.
38. Interpret the specific applications of synthetic mesh, synthetic tissue replacement materials and biological wound cover materials.
39. Analyze the classifications of surgical wounds.
40. List surgical procedures that fit the various classifications of surgical wounds.
41. Compare and contrast intentional, unintentional and incidental/chronic wounds.
42. Analyze the mechanisms of wound healing, the inflammatory process and the healing process.
43. Evaluate the purposes of surgical dressings.
44. Compare and contrast the most commonly used types of surgical and specialty dressings.
45. Describe proper principles of sterile technique in the application of commonly used types of surgical and specialty dressings.
46. Explain the necessity of each of the following components of anesthesia preparation of the surgical patient: assessment, monitoring devices, positions for induction, thermoregulatory devices, intravenous access.
47. Describe emergency procedures carried out in the OR setting
48. Define specimen.
49. Assess methods of obtaining specimens.
50. Describe the handling of tissue specimens.
51. Identify types of containers.
52. Describe the procedure for specimen labeling and transfer to appropriate department.
53. Discuss successful practices in providing culturally-sensitive healthcare to a variety of diverse clients.
54. Discuss basic components related to robotics.
55. List the clinical applications of robotics and computer applications in the OR.

## **STUDENT PERFORMANCE ASSESSMENT METHODS AND GRADING PROCEDURES:**

Student grades are determined after careful judgment of each assignment against a set of criteria, as indicated for each unit. The majority of your grade will be determined from unit exams, but you may also be asked to do student presentations and written assignments. There will be a final exam.

Written assignments will be double-spaced and typed or printed on a letter-quality printer and are due during class on the assigned day. Late assignments are accepted with one letter grade deducted for each late day. Note that each written assignment includes careful evaluation of the quality of writing.

The evaluation process includes:

Unit Exams	60% of total grade
Final Exam	25% of total grade
Paper	<u>15%</u> of total grade
	100%

Excellent work earns a point value between:	93-100	A Grade
Good work earns a point value between:	86-92	B Grade
Fair work earns a point value between:	80-85	C Grade

**Any final grade determination of less than 80% will result in failure of the course.**

### **Instructions for Semester Paper**

Choose a topic of interest related to surgical technology or surgery in the 21<sup>st</sup> century. Email me your topic no later than Monday, October 2, 2006. Research and expand upon the subject in a type written paper, double spaced and 3 to 4 pages in length. Use 12 pt font and one inch top and bottom margins. Students will post these papers for fellow students on the Discussion Board by 4:00pm Tuesday, November 21.

The purpose of the presentation is to instruct fellow students, provide opportunity for discussion and to gain confidence in presenting ideas and information to others. This paper is to include references and a bibliography page in addition to the 3 to 4 pages.

Papers will be graded for content, interest and attention to detail, correct grammar and punctuation. Plagiarism will not be tolerated; if you are quoting a source you must reference it. Papers found to be plagiarized will be reduced by 20 points. Use of previous papers written by a student and turned in as new material will be considered plagiarized.

## ATTENDANCE POLICY:

- Attendance and participation are valued in this course. Therefore, if a virtual classroom or discussion board meeting is scheduled, attendance will be taken. Prompt and regular attendance will be expected in order to meet course objectives. **Students are expected to notify the instructor by email or phone prior to class if unable to attend or if student will be joining late.**
- Students may be asked to furnish a physician's statement regarding an absence. The student is responsible for gathering any information or course materials he or she may have missed due to absence or tardiness.
- Repeated absences will result in completion of a "Student Contract". A student's final grade may be decreased 1 percentage point for each absence.  
**Example:** final grade = 94% (A); student has two absences; final grade = 92% (B).
- If a student misses an exam, arrangements will need to be made with your lab instructor for a make-up time. The make-up exam will need to be taken during the same week it was scheduled.

**If the instructor has not been notified prior to the absence, the instructor may allow no make-up to be administered.**

- Chronic car problems, finances, jobs or job interviews are not valid excuses for missing class.
- Tardiness will not be tolerated. It is disruptive to fellow students. Repeated tardiness will result in completion of a "Student Contract". The student's final grade may be decreased 1 percentage point for each tardy attendance.
- Each case is considered by the instructor on an individual basis. It is up to the discretion of the instructor whether or not a student is meeting course objectives.
- Your course of instruction should be your highest priority.

## OTHER POLICIES:

As I teach, I try to be aware of the special needs of individuals as well as the needs of the group. If you require some accommodation, I encourage you to discuss that with me. Eligible students with disabilities will receive appropriate accommodations in this course when requested in a timely way. Please discuss possible arrangements with me either by phone or email. Please be prepared to provide a letter from your DSS Coordinator. For students planning to request testing accommodations, be sure the form is faxed to me (406-243-7899) in advance in order to make other arrangements.

Please make use of my office hours, for phone calls or emails, to discuss questions you may have about particular assignments or the course content in general. We welcome your visits anytime on our Missoula campus also.

**Students must practice academic honesty.** Academic misconduct is subject to an academic penalty by the course instructor and/or a disciplinary sanction by the University. Academic misconduct is defined as all forms of academic dishonesty, including but not limited to:

1. Plagiarism
2. Misconduct during an examination or academic exercise
3. Unauthorized possession of examination or other course materials
4. Tampering with course materials
5. Submitting false information
6. Submitted work previously presented in another course
7. Improperly influencing conduct
8. Substituting, or arranging substitution, for another student during an examination or other academic exercise
9. Facilitating academic dishonesty
10. Altering transcripts, grades, examinations or other academically related documents

*The University of Montana-Missoula Student Conduct Code*

All students need to be familiar with the Student Conduct Code for The University of Montana. The Code is available for review online at:

<http://www.umt.edu/SA/VPSA/index.cfm/page/1321>

Disruptive or rude behavior may initiate a “Student Contract”. Each time a contract is initiated will result in a 5 point deduction of the final grade.

## **REQUIRED TEXTS:**

### Surgical Technology: Principles and Practice

Author: Fuller

Publisher: Elsevier/Saunders

### Introduction to Operating Room Techniques

Author: Berry/Kohn

Publisher: Mosby

### Instrumentation for the Operating Room

Author: Brooks

Publisher: Mosby

### Alexander's Care of the Patient in Surgery

Author: Meeker/Rothrock

Publisher: Mosby

### AORN Standards of Practice

Author: AORN

Publisher: AORN

### Pocket Guide to the Operating Room

Author: Goldman

Publisher: Davis

### Instrument Pocket Guide

Author: Wells

Publisher: Saunders

## **OTHER COURSE MATERIALS:**

A three-ring notebook to accommodate course materials and emails.  
A computer and online access for course materials and assignments.

## **SUGGESTED REFERENCE MATERIALS:**

- AST Student Membership \$45



## **SUR 202T - COURSE OUTLINE:**

- Unit I                      Care of the Surgical Patient in the Preoperative Period
- A.      Patient physical preparation
  - B.      Patient checklist
  - C.      Patient identification
  - D.      Transportation
  - E.      Review of the chart
  - F.      Patient transfer
  - G.      Discharge Planning
  - I.      Documentation
- Unit II                      Preoperative Patient Care Concepts I
- A.      Patient positioning
  - B.      Homeostasis
    - 1.      Vital signs
    - 2.      Hemodynamics
    - 3.      Monitoring
    - 4.      Thermoregulatory devices
  - C.      Documentation
- Unit III                     Preoperative Patient Care Concepts II
- A.      Skin prep
  - B.      Urinary catheterization
  - C.      Catheter and Drains
  - D.      Draping
  - E.      Documentation
- Unit IV                     Intraoperative Patient Care Concepts I
- A.      Wound classification
  - B.      Wound healing
  - C.      Surgical dressings
- Unit V                      Intraoperative Patient Care Concepts II
- A.      Hemostasis
  - B.      Tissue approximation
- Unit VI                     Anesthesia Concepts
- A.      Assessment
  - B.      Monitoring devices
  - C.      Positioning for induction
  - D.      Thermoregulatory devices
  - E.      Intravenous access
  - F.      Emergency procedures

Unit VII

Postoperative Patient Care Concepts/Special Issues

- A. Specimen care
- B. PACU
- C. Postoperative case management
- D. What Language Does Your Patient Hurt In?

Unit VIII

Technological Sciences for the Operating Room

- A. Review of Basic Computer Knowledge
- B. Electricity for the Surgical Technologist
- C. Physics for the Surgical Technologist
- D. Robotics

I have read the syllabus for SUR 200 Operating Room Techniques. I understand the requirements of me and the evaluation process for the course.

Student Signature\_\_\_\_\_

Date\_\_\_\_\_